

Amendments to the Specification

Please replace paragraphs [0017]-[0019] with the following rewritten paragraphs:

[0017] U.S. patent application serial number ~~09/897,394~~ 09/897,394, now U.S. Patent No. 6,631,981, issued October 13, 2003, is incorporated herein by reference in its entirety. Additionally, U.S. application titled PIEZOELECTRIC INK-JET PRINTER HEAD AND METHOD OF FABRICATING SAME filed with the U. S. Patent and Trademark Office on the same date as the filing date of application of this invention, and now U.S. Patent No. 6,648,455, issued November 18, 2003, is incorporated by reference herein in its entirety.

[0018] As shown in FIG. 3, a frame 1 to be mounted on a known carriage (not shown) traveling along a printing medium is molded by injection of a synthetic resin, such as polypropylene and polypropylene, into substantially a box with its upper surface open. A mount 3 is formed in the frame 1, and four ink cartridges (not shown) for supplying ink are detachably mounted to the mount 3 from above the frame 1. On one side 3a of the mount 3, ink supply passages ~~4a, 4b, 4c, 4d~~ 4a, 4b, 4c, 4d, connected to ink discharge ports ~~(not shown)~~ (not shown), are formed so as to pass through a bottom plate 5, shown in FIG. 1, of the frame 1.

[0019] The bottom plate 5 is stepped down from the mount 3 so as to project therefrom. As shown in FIG. 2, on the underside of the bottom plate 5, two stepped supports 8, 8 are formed to receive two head units 6 side by side, as will be described later. As shown in FIGS. 2, 4, and 5, four apertures 50, 50, 50, 50, which communicate with the four ink supply passages a, 4b, 4c, 4d, respectively, are provided adjacent to the supports 8, 8. ~~A annular~~ An annular groove 46 is recessed so as to surround the outer rim of each aperture 50. As shown in FIG. 4, the two adjacent annular grooves 46, 46, which have a limited space therebetween, are connected with each other into a shape of eight in the plan view.

Please replace paragraph [0021] with the following rewritten paragraph:

[0021] In the bottom plate 5, a plurality of recesses 9a, 9b, which are filled ~~with the~~ with a quickly hardened UD adhesive 7 to bond the head units 6, are formed so as to penetrate the bottom ~~plate 5~~ plate 5 (Fig. 9).

Please replace paragraph [0023] with the following rewritten paragraph:

[0023] As shown in FIG. 3, at the top of one side 3a of the mount 3, rubber packings 53 are disposed at the ink supply passages ~~4a, 4b, 4c~~ 4a, 4b, 4c, 4d so as to make the ink passages ~~4a, 4b, 4c~~ 4a, 4b, 4c, 4d intimate contact with the ink discharge ports.

Please replace paragraph [0041] with the following rewritten paragraph:

[0041] Accordingly, ink fed from the supply holes 19a, 19b flows to the ink passages 12a, 12b and passes through each of the through holes 18, thereby to be directed to each of the pressure chambers 16. After that, the ink passes through each of the through holes 17 aligned with each of the end passages 16a of the pressure chambers 16 and reaches an associated one of the ~~nozzles 15~~ nozzle through holes 15.

Please replace paragraph [0045] with the following rewritten paragraph:

[0045] On the upper surface of each of piezoelectric sheets 21a, 21c, 21e, 21g, dummy individual electrodes 26 are formed at positions along the longitudinal edges outside the common electrode 25. The dummy individual electrodes 26 are aligned with the individual electrodes 24, ~~and a~~ and have a substantially equal width and a shorter length, compared with the individual electrodes 24.

Please replace paragraph [0069] with the following rewritten paragraph:

[0069] The cover plate 44 is placed on the jig 42 such that the ~~projecting peripheral~~ portions 42a are inserted into the openings 44a.

Please replace paragraph [0070] with the following rewritten paragraph:

[0070] After that, the nozzle plates 43 of the head unit 6 are aligned with the ~~projecting-peripheral~~ portions 42a of the plate-like jig 42, and the positioning holes 55 provided in each of the nozzle plates 43 are mated with the corresponding positioning pins 57. When the positioning holes 55 of the two head units 6 are mated with the corresponding positioning pins 57 in the same manner, two sets of rows of nozzles 54 become parallel to each other without any displacements at their front and rear, and the nozzle plates 43 are exposed through the openings 44a (FIG. 7A).

Please replace paragraphs [0072] and [0073] with the following rewritten paragraphs:

[0072] When the positioning pins 57 are equal, in diameter, to the positioning holes 55, the positioning pins 57 do not rattle in the positioning holes 55. Accordingly, the lower surfaces of the nozzle plates 43 are kept in contact with the ~~projecting-peripheral~~ portions 42a of the jig 42, and the direction of the ink ejected from the nozzles 54 can be set accurately perpendicular to the surface of the jig 42.

[0073] On the other hand, when the positioning pins 57 are ~~greater, smaller, in~~ diameter, than the positioning holes 55, the positioning pins 57 can be inserted into the positioning holes 55 and the escape holes 56 regardless of a slight horizontal positioning error introduced when the plates 43, 11, 12U, 12L, 13, 14 are laminated.

Please replace paragraph [0085] with the following rewritten paragraph:

[0085] The UV adhesive 7 filled near the four corners of the head unit 6 allows the head unit 6 to be evenly bonded to the frame 1. In an ink-jet head mounted on a printer, a restoration operation is occasionally performed by moving a cap into intimate contact with all the nozzles 54 in order to suck foreign matter from the nozzles 54. The surface of the cavity plate 10 should be pressed hard enough when the cap is moved into intimate contact with the ~~nozzles 10. nozzle through holes 15.~~ In this case, because the head unit 6 is evenly bonded

to the frame 1, the cavity plate 10 is unlikely to be distorted and thus ink ejection will not be adversely affected.

Please replace paragraph [0091] with the following rewritten paragraph:

[0091] As described above, spaces between the two head units 6 are sealed by the cover plate 44, and spaces between the frame 1 and the periphery of the head units 6 are sealed by the cover plate 44 and the sealant 45. Thus, no ink, paper dust, or ~~dirt enter~~dirt can enter the gap 9c between the frame 1 and the head units 6. This prevents a short circuit in contacts between the piezoelectric actuators 20 and the flexible flat cables 40. In addition, the bend 44b protects the flexible flat cables 40 while leading them in the proper direction.